Presentation for the USNDP 2003 Meeting November 6-7, 2003

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- Changes since the last USNDP meeting
- B. In progress and future plans
- c. GTOL proposal from B. Singh





### Changes since the last USNDP meeting

### COMTRANS

- Converted to FORTRAN 95 & ISAM dictionary replaced by direct access dictionary
- Increased stability & other problems fixed

### ENSDAT

- Converted to FORTRAN 95 & ISAM dictionary replaced by direct access dictionary
- ENSWIN replaced by option in ENSDAT to invoke a PostScript viewer

### FMTCHK

- Several errors corrected and some changes in severity of messages
- Updated check on J field for new formalism of J, J1, ... and added other checks to the J field





- RULER Several problems fixed
- In Progress and Future Plans
  - GAMUT Converted to MS Windows by Dr. Choi
    - Extensive testing required
    - Upgrade to current ENSDF formats and standards
    - Port to Linux and OpenVMS
  - GTOL Increase levels to 500 and gammas to 2000
  - HSICC
    - Work in progress on converting the HSICC package to use the new Band, et al. ICC's





#### LOGFT

 Logic from the LBNL program ft has been incorporated to calculate 3<sup>rd</sup> and higher order unique forbidden transitions.

Extensive testing and intercomparison with LBNL Codes still remains before release.

Update to use the electron-capture data of Schönfeld, et al.

#### RadList

- Converting current in-house version of RadList to FORTRAN 95. Linux, MS Windows, and OpenVMS versions planned.
- Add calculation of subshell conversion- & Auger-electron & X-ray intensities and improve calculation of continua spectra.
- Incorporate logic from LOGFT after new version of LOGFT released.
- In calendar year 2005, maintenance of OpenVMS versions will cease.





- GTOL Proposal from B. Singh Add option to add/modify/delete A/B/E records in new output file
  - How would GTOL recognize a measured intensity used in normalization and not replace it?
  - How do we handle assumptions used in obtaining the normalization?
  - How to treat uncertain gammas?
  - Should the limit from Lyon's method 1 be used?
  - For particle unstable states branching ratio information required for correct calculation of net feeding.
  - Need to properly parse N record to see if relative or absolute I<sub>B</sub> or I<sub>E+B+</sub> should be output.



